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 NEWS  2            "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01  New pricing for the Save Answers for SciFinder Wizard within
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 NEWS  4  OCT 28  KOREAPAT now available on STN
 NEWS  5  NOV 30  PHAR reloaded with additional data
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 NEWS  7  DEC 09  12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS 10  DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS 11  DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS 12  DEC 17  CERAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS 13  DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS 14  DEC 30  EPFULL: New patent full text database to be available on STN
 NEWS 15  DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS 16  JAN 03  No connect-hour charges in EPFULL during January and
                  February 2005
 NEWS 17  FEB 25  CA/CAPLUS - Russian Agency for Patents and Trademarks
                  (ROSPATENT) added to list of core patent offices covered
 NEWS 18  FEB 10  STN Patent Forums to be held in March 2005
 NEWS 19  FEB 16  STN User Update to be held in conjunction with the 229th ACS
                  National Meeting on March 13, 2005
 NEWS 20  FEB 28  PATDPAFULL - New display fields provide for legal status
                  data from INPADOC
 NEWS 21  FEB 28  BABS - Current-awareness alerts (SDIs) available
 NEWS 22  FEB 28  MEDLINE/LMEDLINE reloaded
 NEWS 23  MAR 02  GBFULL: New full-text patent database on STN
 NEWS 24  MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS 25  MAR 03  MEDLINE file segment of TOXCENTER reloaded

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE COVERS 1907 - 20 Mar 2005  VOL 142 ISS 13
FILE LAST UPDATED: 18 Mar 2005  (20050318/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s reactor (l) cooling tube?
        391762 REACTOR
        232607 REACTORS
        438917 REACTOR
                 (REACTOR OR REACTORS)
        369381 COOLING
           204 COOLINGS
        369497 COOLING
                 (COOLING OR COOLINGS)
        469931 TUBE?
          1132 COOLING TUBE?
                 (COOLING(W)TUBE?)
L1         186 REACTOR (L) COOLING TUBE?

=> s l1 and manifold
         14647 MANIFOLD
          5604 MANIFOLDS
         18197 MANIFOLD
                 (MANIFOLD OR MANIFOLDS)
L2           3 L1 AND MANIFOLD

=> s l1 and conduit
         11802 CONDUIT
          7243 CONDUITS
         17507 CONDUIT
                 (CONDUIT OR CONDUITS)
L3           1 L1 AND CONDUIT

=> s l1 and tube bundle
        294362 TUBE
        173494 TUBES
        399183 TUBE
                 (TUBE OR TUBES)
         21925 BUNDLE
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          18484 BUNDLES
          35647 BUNDLE
                  (BUNDLE OR BUNDLES)
           2313 TUBE BUNDLE
                  (TUBE(W)BUNDLE)
L4            2 L1 AND TUBE BUNDLE

=> s l4 or l3
L5            3 L4 OR L3

=> d l5 ibib ab 1-3

L5   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1987:87173  CAPLUS
DOCUMENT NUMBER:          106:87173
TITLE:                    Catalytic process and apparatus for synthesis of
                          ammonia with temperature control
INVENTOR(S):              Lang, Udo; Schramm, Walter
PATENT ASSIGNEE(S):       Linde A.-G., Fed. Rep. Ger.
SOURCE:                   Ger. Offen., 7 pp.
                          CODEN: GWXXBX
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE         APPLICATION NO.         DATE
     ---------------     ----   --------     --------------------    --------
     DE 3522308           A1    19870102     DE 1985-3522308         19850621
PRIORITY APPLN. INFO.:                       DE 1985-3522308         19850621
AB   Synthesis gas containing N and H is converted to NH3 with a catalyst charge
     cooled using many cooling tubes arranged in the flow
     direction for reaction temperature control.  NH3 was synthesized at 170 bar in a
     reactor with an adiabatic catalyst-bed inlet zone and 4 subsequent
     zones cooled by embedded coolant-tube-bundle heat
     exchangers using water boiled at high-pressure as coolant.  The ratio of
     the cooling surface d. was 4:3:2:1.  The NH3 content of the gas increased
     from 4 to 18% from inlet to outlet and catalyst consumption was 0.60 of
     that necessary for the same conversion in an adiabatic double catalyst-bed
     reactor with cooling between beds.

L5   ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1982:54446  CAPLUS
DOCUMENT NUMBER:          96:54446
TITLE:                    Reactor for exothermic reactions and preparation of
                          hydrocarbons using this reactor
INVENTOR(S):              Schuurman, Pieter Jacobus; Teekens, Marius Bastiaan
PATENT ASSIGNEE(S):       Shell Internationale Research Maatschappij B. V.,
                          Neth.
SOURCE:                   Eur. Pat. Appl., 12 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE         APPLICATION NO.         DATE
     ---------------     ----   --------     --------------------    --------
     EP 38098             A1    19811021     EP 1981-200368          19810401
     EP 38098             B1    19831012
         R:  AT, BE, DE, FR, GB, IT, NL
     NL 8002172           A     19811116     NL 1980-2172            19800415
     IN 153671            A     19840804     IN 1981-CA65            19810121
     CA 1163781           A1    19840320     CA 1981-369540          19810128
     US 4359448           A     19821116     US 1981-244462          19810316
     AT 4959              E     19831015     AT 1981-200368          19810401
     AU 8169468           A1    19811022     AU 1981-69468           19810413
     AU 534707            B2    19840209
```

BR 8102255	A	19811124	BR 1981-2255		19810413
JP 56161831	A2	19811212	JP 1981-54456		19810413
JP 01047221	B4	19891012			
ZA 8102433	A	19820428	ZA 1981-2433		19810413
ES 501279	A1	19820901	ES 1981-501279		19810413
PRIORITY APPLN. INFO.:			NL 1980-2172	A	19800415
			EP 1981-200368	A	19810401

AB The fluidized-bed **reactor** has a vertical shell with round ends, a number of uniformly distributed vertical **cooling tubes** that are connected as discrete bundles to a number of headers, a concentric, double-pipe feeding and discharging system for the coolant that is mounted in the top of the shell and is blanked off at a distance above the bottom, a reaction product outlet in the top, a feed inlet in the bottom, and a multiple-perforated-tube gas distributing system that is located just above the lower **tube-bundle** headers. It is especially suitable for hydrogenating CO to hydrocarbons.

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:23018 CAPLUS

DOCUMENT NUMBER: 72:23018

TITLE: Process for the production of cyanogen chloride

INVENTOR(S): Evers, William J.

PATENT ASSIGNEE(S): Agripat S. A.

SOURCE: Fr., 7 pp.
CODEN: FRXXAK

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1555981		19690131		
CH 491053			CH	
DE 1719366			DE	
GB 1222442			GB	
US 3567406		19710000	US	
PRIORITY APPLN. INFO.:			US	19670217

AB The HCN gas is introduced at the center of the flooded-**reactor** column, which has internal water-**cooling tubes** in contact with the strongly acid aq. reaction medium, keeping its temperature at 25-60°. Water, at 13-25°, is introduced at the top of the column (where also the CNCl product gas is removed) and washes the CNCl gas, in a packed column section, to remove all of the HCl and HCN, and most of the Cl2. Cl2 gas, in excess of the amount needed for total conversion of the HCN, enters at the bottom of the column (where also the 13-26% aqueous HCl is removed) at a flow pressure such that HCN gas does not flow out the exit orifice. The bottom of the **reactor** column is connected, by the HCl **conduit** and Cl2 inlet tube, to the top of a separation column, with the Cl2 inlet at the center, where the HCl solution is freed from HCN and CNCl. For the reaction, Cl2 + HCN → CNCl + HCl, conversions of 96.0-99.88% are obtained with 0.007-5.1% hydrolysis of the CNCl.

WEST Search History

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	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L21	(process or method) with replac$3 near3 cooling tubes	1
☐	L20	l5 and support rail$1	2
☐	L19	l5 and support rail$1	2
☐	L18	l5 and boiler feed water runners	0
☐	L17	(replac$3 cooling tubes).ti.	0
☐	L16	L15 and removable bundle	0
☐	L15	(cooling tube same reactor).ti.	25
☐	L14	(cooling tube same reactor).ti.	25
☐	L13	l11 and bundle same rail	0
☐	L12	L11 and removable bundle	0
☐	L11	Fischer tropsch reactor and cooling tube$1	25
☐	L10	removable bundle same reactor	1
☐	L9	l5 and removable bundle	0
☐	L8	L7 and annulus and center$2 tube	2
☐	L7	L5 and boil$3 near2 water	50
☐	L6	L5 and plenum	29
☐	L5	reactor and cooling tube and manifold	207
☐	L4	hawthorne w.in.	13
☐	L3	bohn M.in.	89
	DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L2	hawthorne h.in.	0
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L1	hawthorne, h.in.	0

END OF SEARCH HISTORY